Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	triple adj homologous adj recombination	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:23
L2	0	in adj vivo adj chromosom\$ adj engineering	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:24
L3	0	in adj vivo adj chromosom\$ adj engineering	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:46
L4	2033	bacteria\$2 and (chromosom\$2 adj (engineering or integration))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 13:47
L5	1477	L4 and @ad<="20021219"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 13:50
L6	6	(triple or multiple) adj homologous adj recombination	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:48
L7	0	L5 and L6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:48
L8	340	((Two adj (DNA near fragment)) or ((first adj recombination adj element) and (second adj recombination adj region) and (bacterial adj chromosome))) and (homologous adj recombination)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR .	ON	2005/12/01 13:49
L9	272	L8 and @ad<="20021219"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 13:49
L10	14	L9 and ((site-specific adj recombinase) or (site adj specific adj recombinase) or Cre/lox or flippase or Flp or Xer/dif or Int/att)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:49

L11	69	((Red adj (recombinase or recombination) adj system) or (lambda-Red adj (recombinase or recombination) adj system) or (lambda adj Red adj(recombinase or recombination) adj system) or (lambda-Red adj helper adj plasmid) or (lambda adj Red adj helper adj plasmid) or (lambda-Red adj system) or (lambda adj Red adj system) or pKD46)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:50
L12	30	L11 and @ad<="20021219"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 13:51
L14	1	L12 and L4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2005/12/01 13:51
L15	27	L12 and ((selectable adj marker) or (kanamycin adj select\$4 adj marker) or (antibiotic adj select\$4 adj marker) or (enzyme adj select\$4 adj marker) or (antibiotic adj resistance adj marker) or (enzymatic adj marker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:52
L16	27	L15 and (express\$4 DNA adj fragment) and ((regulatory near element) or promoter or orf or (open adj reading adj frame))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:53
L17	0	L16 and (chromasom\$2 adj integration adj (site or region))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:54
L18	27	L16 and (Escherichia or salmonella or acinetobactor or methylomonas or bacillus or pseudomonas)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:54
L19	27	L18 ANd ((express\$4 DNA adj fragment) and ((regulatory near element) or promoter or orf or (open adj reading adj frame)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:55
L20	0	L19 and (PCR adj generated adj recombination adj element)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:56

L21	0	L19 and ((PCR adj generated adj recombination adj element) or (amplified adj recombination adj element))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:56
L22	39	((first adj recombination adj (region or site)) and ((site-specific or (site adj specific)) adj recombinase) and (selectable adj marker) and (second adj recombination adj (region or site)) and (third adj recombination adj (region or site)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:58
L23	7	L22 and L4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:59
L24	2	L22 and L4 and L11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/12/01 13:59
S1	1	"20040209370"	US-PGPUB; USPAT	OR	ON	2005/12/01 08:58
S2	1	"20040219629"	US-PGPUB; USPAT	OR	ON	2005/11/30 15:27
S3	1	"5888732".pn.	US-PGPUB; USPAT	OR	ON	2005/11/30 15:43
S4	1	"6355412".pn.	US-PGPUB; USPAT	OR	ON	2005/11/30 15:43
S5	6	triple adj homologous adj recombination	US-PGPUB; USPAT	OR	ON	2005/12/01 13:23
S6	1	S5 and @ay<="2002"	US-PGPUB; USPAT	OR	ON	2005/12/01 09:43
S7	0	in adj vivo adj chromosomal adj engineering	US-PGPUB; USPAT	OR	ON	2005/12/01 09:43
S8	0	in adj vivo adj chromosom\$ adj engineering	US-PGPUB; USPAT	OR	ON	2005/12/01 13:24
S9	193	chromosom\$ adj engineering	US-PGPUB; USPAT	OR	ON .	2005/12/01 13:46
S10	139	S9 and @ay<="2002"	US-PGPUB; USPAT	OR	ON	2005/12/01 13:47
S11	139	S9 and @ad<="20021219"	US-PGPUB; USPAT	OR	ON	2005/12/01 10:18
S12	2278	chromosom\$ adj (engineering or integration)	US-PGPUB; USPAT	OR	ON	2005/12/01 10:31
S13	1671	S12 and @ad<="20021219"	US-PGPUB; USPAT	OR	ON	2005/12/01 12:29

						
S14	6	(triple or multiple) adj homologous adj recombination	US-PGPUB; USPAT	OR	ON	2005/12/01 13:48
S15	0	S13 and S14	US-PGPUB; USPAT	OR	ON	2005/12/01 10:33
S16	339	((Two adj (DNA near fragment)) or ((first adj recombination adj element) and (second adj recombination adj region) and (bacterial adj chromosome))) and (homologous adj recombination)	US-PGPUB; USPAT	OR	ON	2005/12/01 13:49
S17	271	S16 and @ad<="20021219"	US-PGPUB; USPAT	OR	ON	2005/12/01 10:29
S18	14	S17 and ((site-specific adj recombinase) or (site adj specific adj recombinase) or Cre/lox or flippase or Flp or Xer/dif or Int/att)	US-PGPUB; USPAT	OR	ON	2005/12/01 13:49
S19	67	((Red adj (recombinase or recombination) adj system) or (lambda-Red adj (recombinase or recombination) adj system) or (lambda adj Red adj(recombinase or recombination) adj system) or (lambda-Red adj helper adj plasmid) or (lambda adj Red adj helper adj plasmid) or (lambda adj Red adj system) or (lambda adj Red adj system) or pKD46)	US-PGPUB; USPAT	OR	ON .	2005/12/01 13:50
S20	30	S19 and @ad<="20021219"	US-PGPUB; USPAT	OR	ON	2005/12/01 10:32
S21	25	S20 and ((site-specific adj recombinase) or (site adj specific adj recombinase) or Cre/lox or flippase or Flp or Xer/dif or Int/att)	US-PGPUB; USPAT	OR	ON	2005/12/01 12:13
S22	2029	bacteria\$2 and (chromosom\$2 adj (engineering or integration))	US-PGPUB; USPAT	OR	ON	2005/12/01 13:47
S23	1476	S22 and @ad<="20021219"	US-PGPUB; USPAT	OR	ON	2005/12/01 10:32
S24	0	S23 and S21	US-PGPUB; USPAT	OR	ON	2005/12/01 12:18
S25	25	S21 and ((selectable adj marker) or (kanamycin adj select\$4 adj marker) or (antibiotic adj select\$4 adj marker) or (enzyme adj select\$4 adj marker) or (antibiotic adj resistance adj marker) or (enzymatic adj marker))	US-PGPUB; USPAT	OR	ON	2005/12/01 13:52
S26	3	S23 and (recombination adj proficient adj host)	US-PGPUB; USPAT	OR	ON	2005/12/01 12:16
S27	0	S25 and (recombination adj proficient adj host)	US-PGPUB; USPAT	OR	ON	2005/12/01 10:48

S28	25	S25 ANd (express\$4 DNA adj fragment) and ((regulatory near element) or promoter or orf or (open adj reading adj frame))	US-PGPUB; USPAT	OR	ON	2005/12/01 13:53
S29	25	S25 ANd ((express\$4 DNA adj fragment) and ((regulatory near element) or promoter or orf or (open adj reading adj frame)))	US-PGPUB; USPAT	OR	ON	2005/12/01 12:19
S30	0	S25 ANd (first adj chromosom\$2 adj (region or site))	US-PGPUB; USPAT	OR	ON	2005/12/01 10:52
S31	0	bacteria\$2 and (chromosom\$2 adj (engineering or integration)) and (inter-operon adj chromasom\$2 adj integration adj (site or region))	US-PGPUB; USPAT	OR	ON	2005/12/01 12:06
S32	0	(inter-operon adj chromasom\$2 adj integration adj (site or region))	US-PGPUB; USPAT	OR	ON	2005/12/01 12:06
S33	0	S25 and (chromasom\$2 adj integration adj (site or region))	US-PGPUB; USPAT	OR	ON	2005/12/01 13:54
S34	25	S25 ANd (express\$4 DNA adj fragment) and ((regulatory near element) or promoter or (phage adj promoter) or (bacterial adj promoter) or orf or (open adj reading adj frame))	US-PGPUB; USPAT	OR	ON	2005/12/01 12:21
S35	1	S26 and ((site-specific adj recombinase) or (site adj specific adj recombinase) or Cre/lox or flippase or Flp or Xer/dif or Int/att)	US-PGPUB; USPAT	OR	ON	2005/12/01 12:13
S36	0	S35 and S20	US-PGPUB; USPAT	OR	ON	2005/12/01 12:14
S37	1094	S23 and (Escherichia or salmonella or acinetobactor or methylomonas or bacillus or pseudomonas)	US-PGPUB; USPAT	OR	ON	2005/12/01 13:54
S38	30	S20 and (Escherichia or salmonella or acinetobactor or methylomonas or bacillus or pseudomonas)	US-PGPUB; USPAT	OR	ON	2005/12/01 12:17
S39	25	S38 and S21	US-PGPUB; USPAT	OR	ON	2005/12/01 12:18
S40	0	S39 and S23	US-PGPUB; USPAT	OR	ON	2005/12/01 12:20
S41	25	S39 ANd ((express\$4 DNA adj fragment) and ((regulatory near element) or promoter or orf or (open adj reading adj frame)))	US-PGPUB; USPAT	OR	ON	2005/12/01 13:55
S42	0	S41 and S31	US-PGPUB; USPAT	OR	ON	2005/12/01 12:20
S43	0	S41 and S33	US-PGPUB; USPAT	OR	ON	2005/12/01 12:20

S44	0	(PCR adj generated adj recombination adj element)	US-PGPUB; USPAT	OR	ON	2005/12/01 13:56
S45	0	(PCR adj generated adj recombination adj element) or (amplified adj recombination adj element)	US-PGPUB; USPAT	OR	ON	2005/12/01 13:56
S46	2	S22 and S19 and ((first adj recombination adj (region or site)) and ((site-specific or (site adj specific)) adj recombinase) and (selectable adj marker) and (second adj recombination adj (region or site)) and (third adj recombination adj (region or site)))	US-PGPUB; USPAT	OR	ON	2005/12/01 13:56
S47	0	S46 and @ad<="20021219"	US-PGPUB; USPAT	OR	ON	2005/12/01 12:29

```
Trying 31060000009999...Open
DIALOG INFORMATION SERVICES
PLEASE LOGON:
****** HHHHHHH SSSSSSSS? ### Status: Signing onto Dialog ******
ENTER PASSWORD:
### Status: Login successfulWelcome to DIALOG
Dialog level 05.08.04D
Last logoff: 30nov05 10:09:42
Logon file405 01dec05 12:33:45
          *** ANNOUNCEMENT ***
                  * * *
-- UPDATED: Important Notice to Freelance Authors--
See HELP FREELANCE for more information
NEW FILES RELEASED
***Index Chemicus (File 302)
***Inspec (File 202)
***Physical Education Index (File 138)
***Computer and Information Systems Abstracts (File 56)
***Electronics and Communications Abstracts (File 57)
***Solid State and Superconductivity Abstracts (File 68)
***ANTE: Abstracts in New Technologies (File 60)
RELOADS COMPLETED
*** The 2005 reload of the CLAIMS files (Files 340, 341, 942)
is now available online.
RESUMED UPDATING
***ERIC (File 1)
Chemical Structure Searching now available in Prous Science Drug
Data Report (F452), Prous Science Drugs of the Future (F453),
IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein
Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus
(File 302).
    >>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
     >>> of new databases, price changes, etc. <<<
SYSTEM: HOME
Cost is in DialUnits
Menu System II: D2 version 1.7.9 term=ASCII
                    *** DIALOG HOMEBASE(SM) Main Menu ***
 Information:
 1. Announcements (new files, reloads, etc.)
 2. Database, Rates, & Command Descriptions
 3. Help in Choosing Databases for Your Topic
 4. Customer Services (telephone assistance, training, seminars, etc.)
  5. Product Descriptions
 Connections:
  6. DIALOG(R) Document Delivery
  7. Data Star(R)
    (c) 2003 Dialog, a Thomson business. All rights reserved.
```

/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

Terminal set to DLINK

*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

- 1. Announcements (new files, reloads, etc.)
- 2. Database, Rates, & Command Descriptions
- 3. Help in Choosing Databases for Your Topic
- 4. Customer Services (telephone assistance, training, seminars, etc.)
- 5. Product Descriptions

Connections:

- 6. DIALOG(R) Document Delivery
- 7. Data Star(R)
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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online
 service. Enter a BEGIN command plus a file number to search a database
(e.g., B1 for ERIC).
? b biosci

>>> 44 is unauthorized

>>> 76 is unauthorized

>>>2 of the specified files are not available 01dec05 12:33:53 User276741 Session D64.1 \$0.00 0.221 DialUnits FileHomeBase

\$0.00 Estimated cost FileHomeBase

\$0.03 TELNET

\$0.03 Estimated cost this search

\$0.03 Estimated total session cost 0.221 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 5:Biosis Previews(R) 1969-2005/Nov W3

(c) 2005 BIOSIS

File 24:CSA Life Sciences Abstracts 1966-2005/Oct

(c) 2005 CSA.

File 28:Oceanic Abstracts 1966-2005/Oct

(c) 2005 CSA.

File 34:SciSearch(R) Cited Ref Sci 1990-2005/Nov W3

(c) 2005 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2005/Nov

(c) 2005 ProQuest Info&Learning

File 40:Enviroline(R) 1975-2005/Jul

File 41:Pollution Abstracts 1966-2005/Oct

(c) 2005 CSA.

File 50:CAB Abstracts 1972-2005/Oct

(c) 2005 CAB International

File 65:Inside Conferences 1993-2005/Nov W4

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File 71:ELSEVIER BIOBASE 1994-2005/Nov W4
         (c) 2005 Elsevier Science B.V.
 File
       73:EMBASE 1974-2005/Dec 01
         (c) 2005 Elsevier Science B.V.
 File
       91:MANTIS(TM) 1880-2005/Jun
        2001 (c) Action Potential
 File
       94:JICST-EPlus 1985-2005/Sep W4
         (c) 2005 Japan Science and Tech Corp (JST)
       98:General Sci Abs/Full-Text 1984-2004/Dec
         (c) 2005 The HW Wilson Co.
 File 110:WasteInfo 1974-2002/Jul
         (c) 2002 AEA Techn Env.
*File 110: This file is closed (no updates)
 File 135:NewsRx Weekly Reports 1995-2005/Nov W3
         (c) 2005 NewsRx
*File 135: Please see HELP NEWS135 for information on select
journal titles.
 File 136:BioEngineering Abstracts-1966-2005/Oct (c) 2005 CSA.
 File 143:Biol. & Agric. Index 1983-2005/Sep
         (c) 2005 The HW Wilson Co
 File 144: Pascal 1973-2005/Nov W3
         (c) 2005 INIST/CNRS
 File 155:MEDLINE(R) 1951-2005/Nov 30
         (c) format only 2005 Dialog
*File 155: Completed records will cease to update on 16 November.
Please see HELP NEWS 154 for details.
 File 164:Allied & Complementary Medicine 1984-2005/Dec
         (c) 2005 BLHCIS
 File 172:EMBASE Alert 2005/Dec 01
         (c) 2005 Elsevier Science B.V.
 File 185:Zoological Record Online(R) 1978-2005/Dec
         (c) 2005 BIOSIS
 File 357: Derwent Biotech Res. _1982-2005/Dec W1
         (c) 2005 Thomson Derwent & ISI
  File 369: New Scientist 1994-2005/Jul W5
         (c) 2005 Reed Business Information Ltd.
  File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
*File 370: This file is closed (no updates). Use File 47 for more current
information.
  File 391:Beilstein Reactions 2005/Q2
         (c) 2005 Beilstein GmbH
  File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
  File 467:ExtraMED(tm) 2000/Dec
         (c) 2001 Informania Ltd.
                                                                        7.
*File 467: F467 no longer updates; see Help News467.
      Set Items Description
                 ______
          ____
? s (triple (w) homologous (w) recombination)
          193951 TRIPLE
          514350 HOMOLOGOUS
          376085 RECOMBINATION
              O (TRIPLE (W) HOMOLOGOUS (W) RECOMBINATION)
    s (chromosom?? (w) (engineering or integration))
         1618678 CHROMOSOM??
         1872672 ENGINEERING
          498205 INTEGRATION
            4067 (CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION))
      S2
? not pd>021211
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1

```
>>>Unrecognizable Command
? s s2 not pd>021211
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
            4067 S2
         7891954 PD>021211
      S3
           3526 S2 NOT PD>021211
? s s3 and ((triple or multiple) (w) homologous (w) recombination)
            3526 S3
         193951 TRIPLE
         2748652 MULTIPLE
          514350 HOMOLOGOUS
          376085 RECOMBINATION
               5 (TRIPLE OR MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINATION
      S4
               O S3 AND ((TRIPLE OR MULTIPLE) (W) HOMOLOGOUS (W)
                  RECOMBINATION)
    (( multiple) (w) homologous (w) recombination)
         2748652 MULTIPLE
          514350 HOMOLOGOUS
          376085 RECOMBINATION
      S5
              5 (( MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINATION)
? s s5 not pd>021219
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
              5 S5
         7876707 PD>021219
      S6
              2 S5 NOT PD>021219
? rd
>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
...completed examining records
     S7
              1 RD (unique items)
? type s7/free
           (Item 1 from file: 5)
7/8/1
0015590675
           BIOSIS NO.: 200510285175
Spontaneous homologous recombination is induced by collapsed replication
  forks that are caused by endogenous DNA single-strand breaks
2005
? s ((Red (w) (recombinase or recombination) (w) system) or (lambda-Red (w)
(recombinase or recombination) (w) system) or (lambda (w) Red (w) (recombinase
or recombination) (w) system) or (lambda-Red (w) helper (w) plasmid) or
(lambda (w) Red (w) helper (w) plasmid) or (lambda-Red (w) system) or (lambda
(w) Red (w) system) or pKD46)
Processing
Processed 10 of 29 files ...
Completed processing all files
        1229273 RED
           18918 RECOMBINASE
          376085 RECOMBINATION
        19907844 SYSTEM
              62 RED(W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM
               2 LAMBDA-RED
           18918 RECOMBINASE
          376085 RECOMBINATION
        19907844 SYSTEM
              0 LAMBDA-RED(W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM
         379181 LAMBDA
         1229273 RED
           18918 RECOMBINASE
```

```
376085 RECOMBINATION
       19907844 SYSTEM
             36 LAMBDA(W) RED(W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM
              2 LAMBDA-RED
         185593 HELPER
         490128 PLASMID
              O LAMBDA-RED(W) HELPER(W) PLASMID
         379181 LAMBDA
         1229273 RED
         185593 HELPER
         490128 PLASMID
              0 LAMBDA (W) RED (W) HELPER (W) PLASMID
               2 LAMBDA-RED
       19907844 SYSTEM
              0 LAMBDA-RED(W)SYSTEM
         379181 LAMBDA
         1229273 RED
       19907844 SYSTEM
             53 LAMBDA (W) RED (W) SYSTEM
             12 PKD46
             124 ((RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR
     S8
                  (LAMBDA-RED (W) (RECOMBINASE OR RECOMBINATION) (W)
                  SYSTEM) OR (LAMBDA (W) RED (W) (RECOMBINASE OR
                  RECOMBINATION) (W) SYSTEM) OR (LAMBDA-RED (W) HELPER (W)
                  PLASMID) OR (LAMBDA (W) RED (W) HELPER (W) PLASMID) OR
                  (LAMBDA-RED (W) SYSTEM) OR (LAMBDA (W) RED (W) SYSTEM) OR
                  PKD46)
? s s8 not pd>021219
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
             124 S8
         7876707 PD>021219
     S9
             73 S8 NOT PD>021219
? s s9 and ((site-specific (w) recombinase) or (site (w) specific (w)
recombinase) or Cre/lox or flippase or Flp or Xer/dif or Int/att)
>>>Term "LOX" is not defined in one or more files
>>>Term "DIF" is not defined in one or more files
>>>Term "ATT" is not defined in one or more files
              73 S9
            5664 SITE-SPECIFIC
           18918 RECOMBINASE
               0 SITE-SPECIFIC (W) RECOMBINASE
         3085655 SITE
         5875582 SPECIFIC
           18918 RECOMBINASE
            1773 SITE (W) SPECIFIC (W) RECOMBINASE
           30620 CRE/LOX
             960 FLIPPASE
            4527 FLP
             604 XER/DIF
           77982 INT/ATT
               2 S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W)
     S10
                  SPECIFIC (W) RECOMBINASE) OR CRE/LOX OR FLIPPASE OR FLP
                  OR XER/DIF OR INT/ATT)
? s s9 and ((site-specific (w) recombinase) or (site (w) specific (w)
recombinase) or (Cre(w)lox) or flippase or Flp or (Xer(w) dif) or (Int(w)
att))
              73 S9
            5664 SITE-SPECIFIC
           18918 RECOMBINASE
               0 SITE-SPECIFIC (W) RECOMBINASE
```

```
3085655 SITE
         5875582 SPECIFIC
           18918 RECOMBINASE
           1773 SITE (W) SPECIFIC (W) RECOMBINASE
           30620 CRE
           11299 LOX
           1785 CRE(W)LOX
             960 FLIPPASE
            4527 FLP
             604 XER
            5070 DIF
              2 XER(W)DIF
           77982 INT
           13685 ATT
              20 INT(W)ATT
               1 S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W)
     S11
                  SPECIFIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR
                  FLP OR (XER(W) DIF) OR (INT(W) ATT))
? type s10/medium,k
            (Item 1 from file: 5)
 10/K/1
DIALOG(R)File
               5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.
0015480514
           BIOSIS NO.: 200510175014
Deletion of clpP in chromosome of E-coli by red recombination
AUTHOR: Bai Guang-Xing; Sun Zhi-Wei; Huang Ying; Yu Wei-Yuan (Reprint)
AUTHOR ADDRESS: Acad Mil Med Sci, Inst Biotechnol, Beijing 100071, Peoples
  R China**Peoples R China
AUTHOR E-MAIL ADDRESS: Yuwy@nic.bmi.ac.cn
JOURNAL: Zhongquo Shengwu Huaxue yu Fenzi Shengwu Xuebao 21 (1): p35-38
FEB 20 2005 2005
ISSN: 1007-7626
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: Chinese
ABSTRACT: Plasmid pKD46 can express three proteins: Gam, Bet and Exo. Gam
  inhibits the host RecBCD exonuclease V...
...that Bet and Exo can gain access to DNA ends to promote recombination.
  BW25113 with pKD46 has the function of recombination when induced by
  L-arabinose. PCR products were obtained by...
... The chloramphenical resistance gene was then eliminated by using a
  helper plasmid, pCP20, encoding the Flp recombinase. Using this system,
  ClpP gene in chromosome of Escherichia coli was deleted.
DESCRIPTORS:
  CHEMICALS & BIOCHEMICALS: ... Flp recombinase...
... pKD46 --
? type s10/medium, k/2
 10/K/2
            (Item 2 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.
             BIOSIS NO.: 200400161495
0014794154
Rapid generation of sequence specific germline modifications in mice.
AUTHOR: Zhou Dewang (Reprint); Ren Jinxiang (Reprint); Ryan Thomas M
```

(Reprint); Townes Tim M (Reprint) AUTHOR ADDRESS: Dept. of Biochemistry and Molecular Genetics, University of Alabama at Birmingham, Birmingham, AL, USA**USA JOURNAL: Blood 102 (11): p37b November 16, 2003 2003 MEDIUM: print CONFERENCE/MEETING: 45th Annual Meeting of the American Society of Hematology San Diego, CA, USA December 06-09, 2003; 20031206 SPONSOR: American Society of Hematology ISSN: 0006-4971 DOCUMENT TYPE: Meeting; Meeting Abstract RECORD TYPE: Abstract LANGUAGE: English ... ABSTRACT: end of the EKLF gene in an EKLF BAC clone by homologous recombination using the lambda red system in E. coli DY380. An 18.3 kb targeting vector containing the EGFP/loxP-PGK... ...after 8 days of selection and analyzed for homologous recombination by PCR. Transient expression of Cre recombinase in correctly targeted ES cell clones was used to remove the floxed PGK/Neo... DESCRIPTORS: CHEMICALS & BIOCHEMICALS: Cre recombinase... ? type s11/medium,k (Item 1 from file: 5) DIALOG(R) File 5:Biosis Previews(R) (c) 2005 BIOSIS. All rts. reserv. BIOSIS NO.: 200510175014 Deletion of clpP in chromosome of E-coli by red recombination AUTHOR: Bai Guang-Xing; Sun Zhi-Wei; Huang Ying; Yu Wei-Yuan (Reprint) AUTHOR ADDRESS: Acad Mil Med Sci, Inst Biotechnol, Beijing 100071, Peoples R China**Peoples R China AUTHOR E-MAIL ADDRESS: Yuwy@nic.bmi.ac.cn JOURNAL: Zhongquo Shengwu Huaxue yu Fenzi Shengwu Xuebao 21 (1): p35-38 FEB 20 2005 2005 ISSN: 1007-7626 DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: Chinese ABSTRACT: Plasmid pKD46 can express three proteins: Gam, Bet and Exo. Gam inhibits the host RecBCD exonuclease V... ...that Bet and Exo can gain access to DNA ends to promote recombination. BW25113 with pKD46 has the function of recombination when induced by L-arabinose. PCR products were obtained by... ... The chloramphenical resistance gene was then eliminated by using a helper plasmid, pCP20, encoding the Flp recombinase. Using this system, ClpP gene in chromosome of Escherichia coli was deleted. DESCRIPTORS: CHEMICALS & BIOCHEMICALS: ... Flp recombinase... ... pKD46 --? ds Set Items Description (TRIPLE (W) HOMOLOGOUS (W) RECOMBINATION) S1S2 4067 (CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION))

```
S3
         3526
               S2 NOT PD>021211
                S3 AND ((TRIPLE OR MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINAT-
S4
            ION)
S5
                (( MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINATION)
            5
                S5 NOT PD>021219
$6
S7
           1
                RD (unique items)
                ((RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (LA-
S8
         124
            MBDA-RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (L-
             AMBDA (W) RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR
              (LAMBDA-RED (W) HELPER (W) PLASMID) OR (LAMBDA (W) RED (W) H-
             ELPER (W) PLA
                S8 NOT PD>021219
S 9
           73
S10
                S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
             FIC (W) RECOMBINASE) OR CRE/LOX OR FLIPPASE OR FLP OR XER/DIF
              OR INT/ATT)
                S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
S11
             FIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR FLP OR
             ER(W) DIF) OR (INT(W) ATT))
? s s8 and (bacteria?? and (chromosom?? (w) (engineering or integration)))
             124 S8
         4230988 BACTERIA??
         1618678 CHROMOSOM??
         1872672 ENGINEERING
          498205 INTEGRATION
            4067 CHROMOSOM??(W) (ENGINEERING OR INTEGRATION)
               1 S8 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR
     S12
                  INTEGRATION)))
? type s12/medium,k
            (Item 1 from file: 357)
DIALOG(R) File 357: Derwent Biotech Res.
(c) 2005 Thomson Derwent & ISI. All rts. reserv.
0345211 DBR Accession No.: 2004-17503
                                          PATENT
Directed integration of an expressible DNA fragment lacking a selectable
    marker into a bacterial chromosome comprises co-transforming
    recombination proficient host with at least two linear recombination
    elements - DNA fragment integration via recombination for use in
    biosynthetic pathway engineering
AUTHOR: SUH W
PATENT ASSIGNEE: DU PONT DE NEMOURS and CO E I 2004
PATENT NUMBER: WO 200456973 PATENT DATE: 20040708 WPI ACCESSION NO.:
    2004-507710 (200448)
PRIORITY APPLIC. NO.: US 434602 APPLIC. DATE: 20021219
NATIONAL APPLIC. NO.: WO 2003US41810 APPLIC. DATE: 20031219
LANGUAGE: English
```

- Directed integration of an expressible DNA fragment lacking a selectable marker into a bacterial chromosome comprises co-transforming recombination proficient host with at least two linear recombination elements DNA...
- ...ABSTRACT: ABSTRACT: NOVELTY Directed integration of an expressible DNA fragment lacking a selectable marker into a **bacterial** chromosome comprises co-transforming recombination proficient host with at least two linear recombination elements, is...
- ... DETAILED DESCRIPTION Directed integration of an expressible DNA fragment lacking a selectable marker into a **bacterial** chromosome comprises co-transforming recombination proficient host with at least two linear recombination elements: (a...

- ... RR3 is a third recombination of about 10-50 bases; (c) providing a recombination proficient bacterial host harboring a lambda Red recombinase system, having a bacterial chromosome comprising: (i) a first chromosomal region having homology to the first recombination region; (ii...
- ... host with the first and second recombination elements, where both elements are integrated into the **bacterial** chromosome between the first and second chromosomal regions forming a construct having the general structure...
- ...is excised from the chromosome and where the expressible DNA fragment is inserted into the **bacterial** chromosome lacking the selectable marker.

 BIOTECHNOLOGY Preferred Method: In the directed integration of an expressible DNA fragment lacking a selectable marker into a **bacterial** chromosome, either the first or second expressible DNA fragment is selected from regulatory elements, promoters...
- ... by a gene residing on a plasmid. The first chromosomal region is upstream of a bacterial promoter or of an inter-operon chromosomal integration site. The expressible DNA fragment is a promoter selected from bacterial and phage promoters. The promoter comprises positive and negative regulatory sites for control of a...
- ... resistance markers, enzymatic markers and amino acid biosynthesis enzymes. The recombination proficient host harboring a lambda Red recombinase system is selected from Escherichia, Salmonella, Acinetobacter, Methylomonas, Bacillus and Pseudomonas. The recombination sites are selected...
- ... and are about 25-4000 bases. Alternatively, integrating a foreign promoter in place of a **bacterial** chromosomal promoter in a recombination proficient host cell or integrating an unlinked foreign promoter and foreign open reading frame into a **bacterial** chromosome in a recombination proficient host cell comprises: (a) providing at least one first recombination...
- ... RR3 is a third recombination of about 10-50 bases; (c) providing a recombination proficient bacterial host harboring a lambda Red recombinase system having a bacterial chromosome comprising: (i) a first chromosomal region upstream of a bacterial promoter having homology to the first recombination region; (ii) a second chromosomal region downstream of the bacterial promoter having homology to the third recombination region; (d) transforming the recombination proficient host with the first and second recombination elements, where both elements are integrated into the bacterial chromosome between the first and second chromosomal regions forming a construct having the general structure...
- ... marker is excised from the chromosome and where the foreign promoter is inserted into the **bacterial** chromosome in place of the **bacterial** promoter. The steps (d)-(f) are repeated one or more times. USE The method is...
- DESCRIPTORS: expressible DNA fragment integration, bacterium chromosome, co-transforming recombination proficient host, linear recombination element, lambda red recombinase system, selectable marker, appl. multiple chromosome modification, biosynth. pathway engineering, material prep. (23, 37)
- ? s s8 and ((selectable (w) marker) or (kanamycin (w) select????? (w) marker)

```
or (antibiotic (w) select???? (w) marker) or (enzyme (w) select???? (w)
marker) or (antibiotic (w) resistance (w) marker) or (enzymatic (w) marker))
Processing
Processed 10 of 29 files ...
Processing
Processed 20 of 29 files ...
Completed processing all files
             124 S8
           30062 SELECTABLE
          925783 MARKER
           19409 SELECTABLE (W) MARKER
           56216 KANAMYCIN
         4890035 SELECT????
          925783 MARKER
              18 KANAMYCIN (W) SELECT???? (W) MARKER
          738157 ANTIBIOTIC
         4890035 SELECT????
          925783 MARKER
              49 ANTIBIOTIC (W) SELECT???? (W) MARKER
         4110562 ENZYME
         4890035 SELECT????
          925783 MARKER
              37 ENZYME (W) SELECT???? (W) MARKER
          738157 ANTIBIOTIC
         2811905 RESISTANCE
          925783 MARKER
             832 ANTIBIOTIC (W) RESISTANCE (W) MARKER
          690101 ENZYMATIC
          925783 MARKER
             484 ENZYMATIC (W) MARKER
     S13
               7 S8 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W)
                  SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W)
                  MARKER) OR (ENZYME (W) SELECT???? (W) MARKER) OR
                  (ANTIBIOTIC (W) RESISTANCE (W) MARKER) OR (ENZYMATIC (W)
                  MARKER))
>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
...completed examining records
               5 RD (unique items)
     S14
? ds
Set
                Description
        Items
                (TRIPLE (W) HOMOLOGOUS (W) RECOMBINATION)
S1
                (CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION))
S2
         4067
S3
         3526
                S2 NOT PD>021211
                S3 AND ((TRIPLE OR MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINAT-
S4
             ION)
                (( MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINATION)
S5
                S5 NOT PD>021219
S6
S7
            1
                RD (unique items)
                ((RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (LA-
S8
          124
             MBDA-RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (L-
             AMBDA (W) RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR
              (LAMBDA-RED (W) HELPER (W) PLASMID) OR (LAMBDA (W) RED (W) H-
             ELPER (W) PLA
S9
                S8 NOT PD>021219
S10
                S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
             FIC (W) RECOMBINASE) OR CRE/LOX OR FLIPPASE OR FLP OR XER/DIF
              OR INT/ATT)
```

```
S11
             1 S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
              FIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR FLP OR
              ER(W) DIF) OR (INT(W) ATT))
                 S8 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR IN-
S12
              TEGRATION)))
                 S8 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W) SELECT??-
S13
              ?? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W) MARKER) OR (-
              ENZYME (W) SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) RESISTAN-
              CE (W) MARKER) OR (ENZYMATIC (W) MARKER))
S14
                 RD (unique items)
? s s10 and s14
                2 S10
                5 S14
     S15
                0 S10 AND S14
? s s2 and ((site-specific (w) recombinase) or (site (w) specific (w)
recombinase) or (Cre(w)lox) or flippase or Flp or (Xer(w) dif) or (Int(w)
             4067 S2
             5664 SITE-SPECIFIC
            18918 RECOMBINASE
                0 SITE-SPECIFIC (W) RECOMBINASE
         3085655 SITE
         5875582 SPECIFIC
18918 RECOMBINASE
           1773 SITE(W)SPECIFIC(W)RECOMBINASE
30620 CRE
11299 LOX
            1785 CRE(W)LOX
960 FLIPPASE
             4527 FLP
              604 XER
             5070 DIF
                2 XER(W)DIF
            77982 INT
            13685 ATT
            . 20 INT(W)ATT
     S16
               79 S2 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W)
                   SPECIFIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR
                   FLP OR (XER(W) DIF) OR (INT(W) ATT))
? s s16 not pd>021219
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
               79 S16
         7876707 PD>021219
               70 S16 NOT PD>021219
? s s17 and ((selectable (w) marker) or (kanamycin (w) select????? (w) marker)
or (antibiotic (w) select???? (w) marker) or (enzyme (w) select???? (w)
marker) or (antibiotic (w) resistance (w) marker) or (enzymatic (w) marker))
Processing
Processed 10 of 29 files ...
Processed 20 of 29 files ...
Processing
Completed processing all files
               70 S17
          30062 SELECTABLE 925783 MARKER
         19409 SELECTABLE (W) MARKER
56216 KANAMYCIN
4890035 SELECT????
          925783 MARKER
               18 KANAMYCIN(W) SELECT????(W) MARKER
```

```
738157 ANTIBIOTIC
         4890035 SELECT????
          925783 MARKER
              49 ANTIBIOTIC (W) SELECT???? (W) MARKER
         4110562 ENZYME
         4890035 SELECT????
          925783 MARKER
              37 ENZYME (W) SELECT???? (W) MARKER
          738157 ANTIBIOTIC
         2811905 RESISTANCE
          925783 MARKER
             832 ANTIBIOTIC (W) RESISTANCE (W) MARKER
          690101 ENZYMATIC
          925783 MARKER
             484 ENZYMATIC (W) MARKER
     S18
              11 S17 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W)
                  SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W)
                  MARKER) OR (ENZYME (W) SELECT???? (W) MARKER) OR
                   (ANTIBIOTIC (W) RESISTANCE (W) MARKER) OR (ENZYMATIC (W)
                  MARKER))
? rd
>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
...completed examining records
     S19
               8 RD (unique items)
? s s19 and (express???? DNA (w) fragment) and ((regulatory (n)element) or
promoter or (phage (w) promoter) or (bacterial (w) promoter) or orf or (open
(w) reading (w) frame))
Sending Break...
?s s19 and ((express???? DNA (w) fragment) and ((regulatory (n)element) or
promoter or (phage (w) promoter) or (bacterial (w) promoter) or orf or (open
(w) reading (w) frame)))
Processed 20 of 29 files ...
Processing
Completed processing all files
               8 S19
               0 EXPRESS???? DNA
          751917 FRAGMENT
               0 EXPRESS???? DNA(W) FRAGMENT
          896392 REGULATORY
         2185028 ELEMENT
           44217 REGULATORY (N) ELEMENT
          756927 PROMOTER
          191542 PHAGE
          756927 PROMOTER
         555 PHAGE (W) PROMOTER 2139028 BACTERIAL
          756927 PROMOTER
           800 BACTERIAL (W) PROMOTER 54671 ORF
         1255108 OPEN
411191 READING
          381651
                  FRAME
          154581
                 OPEN(W) READING(W) FRAME
     S20
                  S19 AND ((EXPRESS???? DNA (W) FRAGMENT) AND ((REGULATORY
                   (N) ELEMENT) OR PROMOTER OR (PHAGE (W) PROMOTER) OR
                   (BACTERIAL (W) PROMOTER) OR ORF OR (OPEN (W) READING (W)
                  FRAME)))
? type s19/free/all
```

```
(Item 1 from file: 5)
19/8/1
0012355878 BIOSIS NO.: 200000074191
Chromosomal
              integration of heterologous DNA in Escherichia coli with
 precise removal of markers and replicons used during construction
1999
19/8/2
           (Item 1 from file: 34)
DIALOG(R) File 34:(c) 2005 Inst for Sci Info. All rts. reserv.
10571180 Genuine Article#: 543EJ Number of References: 27
Title: Towards a Cre-based recombination system for generating integrated
   DNA repertoires site-specifically in yeast (ABSTRACT AVAILABLE)
Publication date: 20020500
Journal Subject Category: BIOTECHNOLOGY & APPLIED MICROBIOLOGY
Descriptors--Author Keywords: chromosome engineering ; Cre recombinase
    ; directed evolution ; lox sites ; Saccharomyces cerevisiae
Identifiers -- KeyWord Plus(R): MUTANT LOX SITES; SACCHAROMYCES-CEREVISIAE;
   GENE DISRUPTIONS; GENOME; MUTAGENESIS; EXPRESSION; CASSETTE; STRATEGY;
   PROTEIN; STRAINS
19/8/3
            (Item 2 from file: 34)
DIALOG(R) File 34: (c) 2005 Inst for Sci Info. All rts. reserv.
08091955 Genuine Article#: 245XV
                                    Number of References: 19
Title: Site-specific chromosomal integration in mammalian cells: Highly
   efficient CRE recombinase-mediated cassette exchange (ABSTRACT
   AVAILABLE)
Publication date: 19991001
Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY
Descriptors--Author Keywords: recombinase ; CRE / Lox ; gene transfer ;
                        integration
   RMCE ; chromosomal
Identifiers -- KeyWord Plus(R): LOXP SPACER REGION; FLP -RECOMBINASE;
   ACTIVATION; GENOME
            (Item 3 from file: 34)
DIALOG(R) File 34:(c) 2005 Inst for Sci Info. All rts. reserv.
         Genuine Article#: 217DA Number of References: 27
Title: Genome engineering of Toxoplasma gondii using the site - specific
   recombinase Cre (ABSTRACT AVAILABLE)
Publication date: 19990708
Journal Subject Category: GENETICS & HEREDITY
Descriptors -- Author Keywords: apicomplexan parasite; excision;
   site-specific chromosomal integration; transformation
Identifiers--KeyWord Plus(R): EMBRYONIC STEM-CELLS; GENE REPLACEMENT;
   MAMMALIAN-CELLS; IN-VITRO; MICE; IDENTIFICATION; EXPRESSION; INDUCTION;
   PROTEIN; MARKER
           (Item 1 from file: 50)
DIALOG(R) File 50: (c) 2005 CAB International. All rts. reserv.
0007103046 CAB Accession Number: 19950110363
  A site-directed chromosomal translocation induced in embryonic stem
cells by Cre - lox P recombination.
```

Publication Year: 1995

DESCRIPTORS: recombination; targeted mutagenesis; gene transfer; chromosome translocation; embryonic stem cells; biotechnology ORGANISM DESCRIPTORS: mice BROADER TERMS: Muridae; rodents; mammals; vertebrates; Chordata; animals; small mammals CABICODES: Biotechnology (General), (Revised June 2002) (WW000); Animal Genetics, (Discontinued March 2000) (LL220); Laboratory Animal Science (LL040) 19/8/6 (Item 1 from file: 98) DIALOG(R) File 98:(c) 2005 The HW Wilson Co. All rts. reserv. 04273997 H.W. WILSON RECORD NUMBER: BGSA00023997 (USE FORMAT 7 FOR FULLTEXT) Recent developments in molecular genetics of Candida albicans. WORD COUNT: 16377 DESCRIPTORS: Candida albicans; Fungal genetics; Molecular genetics 2000 (20000000) 19/8/7 (Item 1 from file: 357) 0316972 DBR Accession No.: 2003-18112 Site-specific recombination for genetic engineering in plants - transgenic plant construction via site-specific recombinanation, a review 2003 19/8/8 (Item 2 from file: 357) 0288720 DBR Accession No.: 2002-10567 Obtaining site-specific gene replacement, useful for obtaining specific and stable integration of nucleic acids into chromosomes of eukaryotes, by employing irreversible recombination sites (IRS) and irreversible recombinases - homologous recombination useful for generating transgenic plant 2002 ? ds Set Description Items (TRIPLE (W) HOMOLOGOUS (W) RECOMBINATION) S1 0 S2 4067 (CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION)) S3 3526 S2 NOT PD>021211 S3 AND ((TRIPLE OR MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINAT-S4 0 ION) S5 5 ((MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINATION) 56 2 S5 NOT PD>021219 S7 RD (unique items) 1 ((RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (LA-S8 124 MBDA-RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (L-AMBDA (W) RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (LAMBDA-RED (W) HELPER (W) PLASMID) OR (LAMBDA (W) RED (W) H-ELPER (W) PLA S9 S8 NOT PD>021219 S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-S10 FIC (W) RECOMBINASE) OR CRE/LOX OR FLIPPASE OR FLP OR XER/DIF OR INT/ATT)

S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-

FIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR FLP OR (X-

ER(W) DIF) OR (INT(W) ATT))

S11

```
S12
                S8 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR IN-
             TEGRATION)))
                S8 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W) SELECT??-
S13
             ?? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W) MARKER) OR (-
             ENZYME (W) SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) RESISTAN-
             CE (W) MARKER) OR (ENZYMATIC (W) MARKER))
S14
                RD (unique items)
                S10 AND S14
S15
S16
           79
                S2 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
             FIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR FLP OR (X-
             ER(W) DIF) OR (INT(W) ATT))
           70
                S16 NOT PD>021219
S17
S18
           11
                S17 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W) SELECT?-
             ??? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W) MARKER) OR -
             (ENZYME (W) SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) RESISTA-
             NCE (W) MARKER) OR (ENZYMATIC (W) MARKER))
                RD (unique items)
S19
S20
                S19 AND ((EXPRESS???? DNA (W) FRAGMENT) AND ((REGULATORY (-
             N) ELEMENT) OR PROMOTER OR (PHAGE (W) PROMOTER) OR (BACTERIAL -
             (W) PROMOTER) OR ORF OR (OPEN (W) READING (W) FRAME)))
? s 19 and (bacteria?? and (chromosom?? (w) (engineering or integration)))
         1924582 19
         4230988 BACTERIA??
         1618678 CHROMOSOM??
         1872672 ENGINEERING
          498205 INTEGRATION
            4067 CHROMOSOM??(W) (ENGINEERING OR INTEGRATION)
     S21
              36 19 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR
                  INTEGRATION)))
? s s19 and (bacteria?? and (chromosom?? (w) (engineering or integration)))
               8 S19
         4230988 BACTERIA??
         1618678 CHROMOSOM??
         1872672 ENGINEERING
          498205 INTEGRATION
            4067 CHROMOSOM??(W) (ENGINEERING OR INTEGRATION)
               2 S19 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR
     S22
                  INTEGRATION)))
? rd
>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
...completed examining records
     S23
               2 RD (unique items)
? type s23/free/1-2
 23/8/1
            (Item 1 from file: 5)
0012355878
           BIOSIS NO.: 200000074191
 Chromosomal
               integration of heterologous DNA in Escherichia coli with
 precise removal of markers and replicons used during construction
1999
            (Item 1 from file: 98)
 23/8/2
DIALOG(R) File 98:(c) 2005 The HW Wilson Co. All rts. reserv.
04273997
           H.W. WILSON RECORD NUMBER: BGSA00023997
                                                          (USE FORMAT 7 FOR
FULLTEXT)
Recent developments in molecular genetics of Candida albicans.
```

WORD COUNT: 16377

```
DESCRIPTORS:
  Candida albicans; Fungal genetics; Molecular genetics
2000 (2000000)
? type s23/medium, k/1
            (Item 1 from file: 5)
 23/K/1
DIALOG(R) File 5: Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.
             BIOSIS NO.: 200000074191
0012355878
 Chromosomal
               integration of heterologous DNA in Escherichia coli with
  precise removal of markers and replicons used during construction
AUTHOR: Martinez-Morales F; Borges A C; Martinez A; Shanmugam K T; Ingram L
  O (Reprint)
AUTHOR ADDRESS: Dept. Micro. and Cell Science, University of Florida,
  Gainesville, FL, USA**USA
JOURNAL: Journal of Bacteriology 181 (22): p7143-7148 Nov., 1999 1999
MEDIUM: print
ISSN: 0021-9193
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
 Chromosomal
               integration of heterologous DNA in Escherichia coli with
 precise removal of markers and replicons used during...
... ABSTRACT: a modified multiple cloning region for DNA insertion. After
  integration, a helper plasmid expressing the flippase (FLP)
  recombinase allows precise in vivo excision of the replicon and the
  marker used for selection...
DESCRIPTORS:
  ...BIOSYSTEMATIC NAMES: Facultatively Anaerobic Gram-Negative Rods,
    Eubacteria, Bacteria, Microorganisms...
...Eubacteria, Bacteria, Microorganisms ...ORGANISMS: PARTS ETC: bacterial
  COMMON TAXONOMIC TERMS: Bacteria;
  CHEMICALS & BIOCHEMICALS:
                              ... bacterial , heterologous, insertion,
    sequential chromosomal
                              integration; ...
... antibiotic ,
                   selectable marker; ...
... antibiotic ,
                   selectable marker; ...
... flippase recombinase...
... antibiotic , selectable marker ;
? ds
Set
        Items
                Description
                (TRIPLE (W) HOMOLOGOUS (W) RECOMBINATION)
S1
                (CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION))
S2
         4067
S3
         3526
                S2 NOT PD>021211
S4
                S3 AND ((TRIPLE OR MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINAT-
             ION)
S5
                (( MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINATION)
S6
                S5 NOT PD>021219
S7
                RD (unique items)
S8
                ((RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (LA-
             MBDA-RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (L-
```

```
AMBDA (W) RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR
              (LAMBDA-RED (W) HELPER (W) PLASMID) OR (LAMBDA (W) RED (W) H-
             ELPER (W) PLA
S9
           73
                S8 NOT PD>021219
                S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
S10
             FIC (W) RECOMBINASE) OR CRE/LOX OR FLIPPASE OR FLP OR XER/DIF
              OR INT/ATT)
                S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
S11
             FIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR FLP OR
             ER(W) DIF) OR (INT(W) ATT))
                S8 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR IN-
S12
             TEGRATION)))
                S8 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W) SELECT??-
S13
             ?? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W) MARKER) OR (-
             ENZYME (W) SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) RESISTAN-
             CE (W) MARKER) OR (ENZYMATIC (W) MARKER))
S14
            5
                RD (unique items)
S15
            0
                S10 AND S14
                S2 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
S16
           79
             FIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR FLP OR
             ER(W) DIF) OR (INT(W) ATT))
           70
                S16 NOT PD>021219
S17
                S17 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W) SELECT?-
S18
           11
             ??? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W) MARKER) OR -
             (ENZYME (W) SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) RESISTA-
             NCE (W) MARKER) OR (ENZYMATIC (W) MARKER))
S19
                RD (unique items)
                S19 AND ((EXPRESS???? DNA (W) FRAGMENT) AND ((REGULATORY (-
S20
             N) ELEMENT) OR PROMOTER OR (PHAGE (W) PROMOTER) OR (BACTERIAL -
             (W) PROMOTER) OR ORF OR (OPEN (W) READING (W) FRAME)))
                19 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR IN-
S21
             TEGRATION)))
                S19 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR I-
S22
             NTEGRATION)))
S23
                RD (unique items)
? s s8 and (bacteria?? and (chromosom?? (w) (engineering or integration)))
             124 S8
         4230988 BACTERIA??
         1618678 CHROMOSOM??
         1872672 ENGINEERING
          498205 INTEGRATION
            4067 CHROMOSOM??(W) (ENGINEERING OR INTEGRATION)
               1 S8 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR
     S24
                  INTEGRATION)))
? type s24/free
 24/8/1
            (Item 1 from file: 357)
        DBR Accession No.: 2004-17503
Directed integration of an expressible DNA fragment lacking a selectable
    marker into a bacterial chromosome comprises co-transforming
    recombination proficient host with at least two linear recombination
    elements - DNA fragment integration via recombination for use in
    biosynthetic pathway engineering 2004
? type s24/medium,k
            (Item 1 from file: 357)
 24/K/1
DIALOG(R) File 357: Derwent Biotech Res.
(c) 2005 Thomson Derwent & ISI. All rts. reserv.
0345211 DBR Accession No.: 2004-17503
                                          PATENT
```

Directed integration of an expressible DNA fragment lacking a selectable

marker into a bacterial chromosome comprises co-transforming recombination proficient host with at least two linear recombination elements - DNA fragment integration via recombination for use in biosynthetic pathway engineering

AUTHOR: SUH W

PATENT ASSIGNEE: DU PONT DE NEMOURS and CO E I 2004

PATENT NUMBER: WO 200456973 PATENT DATE: 20040708 WPI ACCESSION NO.:

2004-507710 (200448)

PRIORITY APPLIC. NO.: US 434602 APPLIC. DATE: 20021219
NATIONAL APPLIC. NO.: WO 2003US41810 APPLIC. DATE: 20031219

LANGUAGE: English

- Directed integration of an expressible DNA fragment lacking a selectable marker into a bacterial chromosome comprises co-transforming recombination proficient host with at least two linear recombination elements DNA...
- ...ABSTRACT: ABSTRACT: NOVELTY Directed integration of an expressible DNA fragment lacking a selectable marker into a **bacterial** chromosome comprises co-transforming recombination proficient host with at least two linear recombination elements, is...
- ... DETAILED DESCRIPTION Directed integration of an expressible DNA fragment lacking a selectable marker into a **bacterial** chromosome comprises co-transforming recombination proficient host with at least two linear recombination elements: (a...
- ... RR3 is a third recombination of about 10-50 bases; (c) providing a recombination proficient bacterial host harboring a lambda Red recombinase system, having a bacterial chromosome comprising: (i) a first chromosomal region having homology to the first recombination region; (ii...
- ... host with the first and second recombination elements, where both elements are integrated into the **bacterial** chromosome between the first and second chromosomal regions forming a construct having the general structure...
- ...is excised from the chromosome and where the expressible DNA fragment is inserted into the **bacterial** chromosome lacking the selectable marker. BIOTECHNOLOGY Preferred Method: In the directed integration of an expressible DNA fragment lacking a selectable marker into a **bacterial** chromosome, either the first or second expressible DNA fragment is selected from regulatory elements, promoters...
- ... by a gene residing on a plasmid. The first chromosomal region is upstream of a bacterial promoter or of an inter-operon chromosomal integration site. The expressible DNA fragment is a promoter selected from bacterial and phage promoters. The promoter comprises positive and negative regulatory sites for control of a...
- ... resistance markers, enzymatic markers and amino acid biosynthesis enzymes. The recombination proficient host harboring a lambda Red recombinase system is selected from Escherichia, Salmonella, Acinetobacter, Methylomonas, Bacillus and Pseudomonas. The recombination sites are selected...
- ... and are about 25-4000 bases. Alternatively, integrating a foreign promoter in place of a **bacterial** chromosomal promoter in a recombination proficient host cell or integrating an unlinked foreign promoter and foreign open reading frame into a **bacterial** chromosome

```
in a recombination proficient host cell comprises: (a) providing at
   least one first recombination...
... RR3 is a third recombination of about 10-50 bases; (c) providing a
    recombination proficient bacterial host harboring a lambda - Red
                  system having a bacterial chromosome comprising: (i)
     recombinase
    a first chromosomal region upstream of a bacterial promoter having
   homology to the first recombination region; (ii) a second chromosomal
    region downstream of the bacterial promoter having homology to the
          recombination region; (d) transforming the recombination
   third
   proficient host with the first and second recombination elements, where
    both elements are integrated into the bacterial chromosome between
   the first and second chromosomal regions forming a construct having the
   general structure...
... marker is excised from the chromosome and where the foreign promoter is
    inserted into the bacterial chromosome in place of the bacterial
   promoter. The steps (d)-(f) are repeated one or more times. USE - The
   method is...
DESCRIPTORS: expressible DNA fragment integration, bacterium chromosome,
   co-transforming recombination proficient host, linear recombination
   element, lambda - red recombinase system, selectable marker,
   appl. multiple chromosome modification, biosynth. pathway engineering,
   material prep. (23, 37)
? s ((first (w) recombination (w) (region or site)) and ((site-specific or
(site (w) specific)) (w) recombinase) and (selectable (w) marker) and (second
(w) recombination (w) (region or site)) and (third (w) recombination (w)
(region or site)))
Processed 10 of 29 files ...
Processing
Processed 20 of 29 files ...
Completed processing all files
         6063978 FIRST
                 RECOMBINATION
          376085
         5398949
                 REGION
         3085655
                 SITE
              29 FIRST (W) RECOMBINATION (W) (REGION OR SITE)
            5664 SITE-SPECIFIC
         3085655 SITE
         5875582 SPECIFIC
          124348 SITE(W)SPECIFIC
          18918 RECOMBINASE
                 (SITE-SPECIFIC OR SITE (W) SPECIFIC) (W) RECOMBINASE
           1773
          30062 SELECTABLE
          925783 MARKER
          19409 SELECTABLE (W) MARKER
         2849870 SECOND
          376085
                 RECOMBINATION
         5398949
                 REGION
         3085655
                 SITE
                 SECOND (W) RECOMBINATION (W) (REGION OR SITE)
              43
         1322737
                 THIRD
          376085
                 RECOMBINATION
                 REGION
         5398949
         3085655
                 SITE
                 THIRD (W) RECOMBINATION (W) (REGION OR SITE)
                  ((FIRST (W) RECOMBINATION (W) (REGION OR SITE)) AND
     S25
                  ((SITE-SPECIFIC OR (SITE (W) SPECIFIC)) (W) RECOMBINASE)
                 AND (SELECTABLE (W) MARKER) AND (SECOND (W) RECOMBINATION
```

(W) (REGION OR SITE)) AND (THIRD (W) RECOMBINATION (W)

(REGION OR SITE)))

```
25/8/1
            (Item 1 from file: 357)
0345211
         DBR Accession No.: 2004-17503
Directed integration of an expressible DNA fragment lacking a selectable
    marker into a bacterial chromosome comprises co-transforming
    recombination proficient host with at least two linear recombination
    elements - DNA fragment integration via recombination for use in
    biosynthetic pathway engineering 2004
? ds
Set
        Items
                Description
S1
                (TRIPLE (W) HOMOLOGOUS (W) RECOMBINATION)
         4067
S2
                (CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION))
S3
         3526
                S2 NOT PD>021211
                S3 AND ((TRIPLE OR MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINAT-
S4
            0
             ION)
S5
                (( MULTIPLE) (W) HOMOLOGOUS (W) RECOMBINATION)
S 6
                S5 NOT PD>021219
s7
                RD (unique items)
S8
                ((RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (LA-
             MBDA-RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR (L-
             AMBDA (W) RED (W) (RECOMBINASE OR RECOMBINATION) (W) SYSTEM) OR
              (LAMBDA-RED (W) HELPER (W) PLASMID) OR (LAMBDA (W) RED (W) H-
             ELPER (W) PLA
                S8 NOT PD>021219
S9
           73
                S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
S10
             FIC (W) RECOMBINASE) OR CRE/LOX OR FLIPPASE OR FLP OR XER/DIF
              OR INT/ATT)
                S9 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
S11
             FIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR FLP OR
             ER(W) DIF) OR (INT(W) ATT))
                S8 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR IN-
S12
             TEGRATION)))
                S8 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W) SELECT??-
S13
             ?? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W) MARKER) OR (-
             ENZYME (W) SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) RESISTAN-
             CE (W) MARKER) OR (ENZYMATIC (W) MARKER))
                RD (unique items)
S14
S15
            0
                S10 AND S14
                S2 AND ((SITE-SPECIFIC (W) RECOMBINASE) OR (SITE (W) SPECI-
S16
             FIC (W) RECOMBINASE) OR (CRE(W)LOX) OR FLIPPASE OR FLP OR (X-
             ER(W) DIF) OR (INT(W) ATT))
                S16 NOT PD>021219
S17
                S17 AND ((SELECTABLE (W) MARKER) OR (KANAMYCIN (W) SELECT?-
S18
             ??? (W) MARKER) OR (ANTIBIOTIC (W) SELECT???? (W) MARKER) OR -
             (ENZYME (W) SELECT???? (W) MARKER) OR (ANTIBIOTIC (W) RESISTA-
             NCE (W) MARKER) OR (ENZYMATIC (W) MARKER))
                RD (unique items)
S19
                S19 AND ((EXPRESS???? DNA (W) FRAGMENT) AND ((REGULATORY (-
S20
             N) ELEMENT) OR PROMOTER OR (PHAGE (W) PROMOTER) OR (BACTERIAL -
             (W) PROMOTER) OR ORF OR (OPEN (W) READING (W) FRAME)))
                19 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR IN-
S21
             TEGRATION)))
S22
                S19 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR I-
             NTEGRATION)))
S23
                RD (unique items)
                S8 AND (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR IN-
S24
             TEGRATION)))
                ((FIRST (W) RECOMBINATION (W) (REGION OR SITE)) AND ((SITE-
S25
             -SPECIFIC OR (SITE (W) SPECIFIC)) (W) RECOMBINASE) AND (SELEC-
```

TABLE (W) MARKER) AND (SECOND (W) RECOMBINATION (W) (REGION OR SITE)) AND (THIRD (W) RECOMBINATION (W) (REGION OR SITE))) ? b411 01dec05 13:02:41 User276741 Session D64.2 3.751 DialUnits File5 \$22.13 \$0.00 3 Type(s) in Format 6 \$0.64 4 Type(s) in Format 95 (KWIC) \$0.64 7 Types \$22.77 Estimated cost File5 1.090 DialUnits File24 \$6.76 Estimated cost File24 \$6.76 \$1.38 0.222 DialUnits File28 \$1.38 Estimated cost File28 \$74.48 3.364 DialUnits File34 \$0.00 3 Type(s) in Format 8 \$0.00 3 Types Estimated cost File34 \$74.48 0.549 DialUnits File35 \$2.25 Estimated cost File35 \$1.56 0.218 DialUnits File40 \$1.56 Estimated cost File40 \$1.47 0.237 DialUnits File41 Estimated cost File41 0.906 DialUnits File50 \$4.17 \$0.00 1 Type(s) in Format 8 \$0.00 1 Types Estimated cost File50 \$1.19 0.316 DialUnits File65 \$1.19 Estimated cost File65 \$11.20 1.280 DialUnits File71 \$11.20 Estimated cost File71 \$27.63 2.599 DialUnits File73 Estimated cost File73 \$27.63 \$0.60 0.139 DialUnits File91 \$0.60 Estimated cost File91 0.737 DialUnits File94 \$2.58 Estimated cost File94 \$2.58 0.440 DialUnits File98 \$1.87 \$0.00 2 Type(s) in Format 8 \$0.00 2 Types \$1.87 Estimated cost File98 0.126 DialUnits File110 \$0.73 \$0.73 Estimated cost File110 0.365 DialUnits File135 \$1.97 \$1.97 Estimated cost File135 \$1.39 0.224 DialUnits File136 \$1.39 Estimated cost File136 0.340 DialUnits File143 \$1.02 \$1.02 Estimated cost File143 2.492 DialUnits File144 \$11.21 \$11.21 Estimated cost File144 \$8.29 2.439 DialUnits File155 \$8.29 Estimated cost File155 0.133 DialUnits File164 \$0.46 \$0.46 Estimated cost File164 \$2.02 0.190 DialUnits File172 \$2.02 Estimated cost File172 \$1.92 0.312 DialUnits File185

\$1.92 Estimated cost File185

```
$0.00 4 Type(s) in Format 6
            $4.90 6 Types
           Estimated cost File357
   $16.23
           $0.46
                    0.133 DialUnits File369
    $0.46 Estimated cost File369
           $0.43
                    0.124 DialUnits File370
    $0.43 Estimated cost File370
           $0.00
                    0.252 DialUnits File391
    $0.00 Estimated cost File391
           $8.75
                    0.395 DialUnits File434
    $8.75 Estimated cost File434
           $0.56
                    0.088 DialUnits File467
    $0.56 Estimated cost File467
           OneSearch, 29 files, 24.002 DialUnits FileOS
    $7.73
           TELNET
   $223.08 Estimated cost this search
  $223.11 Estimated total session cost 24.224 DialUnits
File 411: DIALINDEX (R)
DIALINDEX (R)
   (c) 2005 Dialog
*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
? sf allbiosci
  You have 81 files in your file list.
   (To see banners, use SHOW FILES command)
? s ((Red (w)(recombinase or recombination) (w) system) or (lambda-Red (w)
(recombinase or recombination) (w) system) or (lambda (w) Red (w) (recombinase
or recombination) (w) system) or (lambda-Red (w) helper (w) plasmid) or
(lambda (w) Red (w) helper (w) plasmid) or (lambda-Red (w) system) or (lambda
(w) Red (w) system) or pKD46) and ((BACTERIA?? AND (CHROMOSOM?? (W)
(ENGINEERING OR INTEGRATION)))
Your SELECT statement is:
   s ((Red (w) (recombinase or recombination) (w) system) or (lambda-Red (w)
(recombinase or recombination) (w) system) or (lambda (w) Red
(w) (recombinase or recombination) (w) system) or (lambda-Red (w) helper (w)
plasmid) or (lambda (w) Red (w) helper (w) plasmid) or (lambda-Red (w)
system) or (lambda (w) Red (w) system) or pKD46) and ((BACTERIA?? AND
(CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION)))
                   File
           Items
>>>Unmatched parentheses
? s ((Red (w) (recombinase or recombination) (w) system) or (lambda-Red (w)
(recombinase or recombination) (w) system) or (lambda (w) Red (w) (recombinase
or recombination) (w) system) or (lambda-Red (w) helper (w) plasmid) or
(lambda (w) Red (w) helper (w) plasmid) or (lambda-Red (w) system) or (lambda
(w) Red (w) system) or pKD46) and ((BACTERIA?? AND (CHROMOSOM?? (W)
(ENGINEERING OR INTEGRATION))
Your SELECT statement is:
   s ((Red (w) (recombinase or recombination) (w) system) or (lambda-Red (w)
(recombinase or recombination) (w) system) or (lambda (w) Red
(w) (recombinase or recombination) (w) system) or (lambda-Red (w) helper (w)
plasmid) or (lambda (w) Red (w) helper (w) plasmid) or (lambda-Red (w)
system) or (lambda (w) Red (w) system) or pKD46) and ((BACTERIA?? AND
(CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION))
```

Items File

>>>Unmatched parentheses

- L: 🌪

? s ((Red (w) (recombinase or recombination) (w) system) or (lambda-Red (w) (recombinase or recombination) (w) system) or (lambda (w) Red (w) (recombinase or recombination) (w) system) or (lambda-Red (w) helper (w) plasmid) or (lambda (w) Red (w) helper (w) plasmid) or (lambda-Red (w) system) or (lambda (w) Red (w) system) or pKD46) and (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION)))

Your SELECT statement is:

s ((Red (w) (recombinase or recombination) (w) system) or (lambda-Red (w) (recombinase or recombination) (w) system) or (lambda (w) Red (w) (recombinase or recombination) (w) system) or (lambda-Red (w) helper (w) plasmid) or (lambda (w) Red (w) helper (w) plasmid) or (lambda-Red (w) system) or (lambda (w) Red (w) system) or pKD46) and (BACTERIA?? AND (CHROMOSOM?? (W) (ENGINEERING OR INTEGRATION)))

Items File

Examined 50 files

1 357: Derwent Biotech Res.__1982-2005/Dec W1

1 file has one or more items; file list includes 81 files.

? s ((first (w) recombination (w) (region or site)) and ((site-specific or (site (w) specific)) (w) recombinase) and (selectable (w) marker) and (second (w) recombination (w) (region or site)) and (third (w) recombination (w) (region or site)))

Your SELECT statement is:

s ((first (w) recombination (w) (region or site)) and ((site-specific or (site (w) specific)) (w) recombinase) and (selectable (w) marker) and (second (w) recombination (w) (region or site)) and (third (w) recombination (w) (region or site)))

Items File

Examined 50 files

1 357: Derwent Biotech Res. 1982-2005/Dec W1

1 file has one or more items; file list includes 81 files.

? ds

>>>"DS" command not valid in DIALINDEX.

? save temp

Temp SearchSave "TC151700137" stored

? logoff

01dec05 13:08:41 User276741 Session D64.3

\$13.53 5.107 DialUnits File411

\$13.53 Estimated cost File411

\$1.86 TELNET

\$15.39 Estimated cost this search

\$238.50 Estimated total session cost 29.331 DialUnits

Logoff: level 05.08.04 D 13:08:41

You are now logged off